

Serial No. 10/673,282

Docket No. YHK-0120

Amtd. dated August 31, 2006

Reply to Office Action of June 7, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A method of driving a plasma display panel, comprising the steps of:

setting the number of sustaining pulses in response to an average picture level; and

setting a period of ~~the~~ each sustaining pulse in proportion to said average picture levellevel.

wherein said period of the sustaining pulse is changed in a stepwise manner in accordance with the average picture level as said average picture level goes from a first level into a second level.

2. (Currently amended) The method as claimed in claim 1, wherein said ~~step of~~ setting the number of sustaining pulses includes:

setting the number of sustaining pulses in inverse proportion to an average picture level.

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3. (Currently amended) The method as claimed in claim 1, wherein said ~~step of~~ setting a period of sustaining pulses includes:

setting a high width of the sustaining pulse largely in proportion to an average picture level.

4. (Currently amended) The method as claimed in claim 1, wherein said ~~step of~~ setting a period of sustaining pulses includes:

setting a low width of the sustaining pulse largely in proportion to an average picture level.

5. (Currently amended) The method as claimed in claim 1, wherein said ~~step of~~ setting a period of sustaining pulses includes:

setting a low width and a high width of the sustaining pulse largely in proportion to an average picture level.

6. (Currently amended) The method as claimed in claim 1, wherein a maximum period of the sustaining pulse is wider, by approximately 0.5 $\mu$ s to 10 $\mu$ s, than a minimum period of the sustaining pulse.

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7. (Original) The method as claimed in claim 1, wherein said period of the sustaining pulse is changed in at least partial region of said average picture level.

8. (Currently amended) The method as claimed in claim 7, further comprising the step of:

setting a minimum limit frequency at more than a desired average picture level such that said period of the sustaining pulse is limited to less than a certain width.

9. (Currently amended) The method as claimed in claim 8, wherein said minimum limit frequency is set such that a maximum period of the sustaining pulse is widened, by approximately 0.5 $\mu$ s to 10 $\mu$ s, than a minimum period of the sustaining pulse.

10. (Currently amended) The method as claimed in claim 7, further comprising the step of:

setting a maximum limit frequency at less than a desired average picture level such that said period of the sustaining pulse is limited to more than a certain width.

11. (Canceled)

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12. (Currently amended) A method of driving a plasma display panel, comprising the steps of:

setting the number of sustaining pulses in response to an average picture level; and

setting a high width of the sustaining pulse in proportion to said average picture levellevel,

wherein a period of the sustaining pulse is increased in a stepwise manner in accordance with the average picture level as said average picture level goes from a lower level into a higher level.

13. (Original) The method as claimed in claim 12, wherein said high width of the sustaining pulse is changed in at least partial region of said average picture level.

14. (Currently amended) A method of driving a plasma display panel, comprising the steps of:

setting the number of sustaining pulses in response to an average picture level; and

setting a low width of the sustaining pulse in proportion to said average picture levellevel,

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wherein a period of the sustaining pulse is increased in a stepwise manner in accordance with the average picture level as said average picture level goes from a lower level into a higher level.

15. (Original) The method as claimed in claim 14, wherein said low width of the sustaining pulse is changed in at least partial region of said average picture level.

16. (Currently amended) A driving apparatus for a plasma display panel, comprising:  
average picture level means for setting an average picture level corresponding to a video data; and

period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to said average picture level set by the average picture level ~~means~~means,  
wherein said period of the sustaining pulse is increased in a stepwise manner in accordance with the average picture level as said average picture level goes from a lower level into a higher level.

17. (Original) The driving apparatus as claimed in claim 16, wherein said period setting means sets a high width of the sustaining pulse in proportion to said average picture level.

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18. (Original) The driving apparatus as claimed in claim 16, wherein said period setting means sets a low width of the sustaining pulse in proportion to said average picture level.

19. (Original) The driving apparatus as claimed in claim 16, wherein said period setting means sets a low width and a high width of the sustaining pulse in proportion to said average picture level.

20. (Original) The driving apparatus as claimed in claim 16, further comprising:  
limit value setting means for setting at least one of a maximum limit value capable of widening a period of the sustaining pulse and a minimum limit value capable of narrowing said period of the sustaining pulse.

21. (Presently Presented) The driving apparatus as claimed in claim 20, wherein said period setting means receives at least one of said maximum limit value and said minimum limit value to control said period of the sustaining pulse.

22. (New) The method according to claim 1, wherein said period of the sustaining pulse is increased in a stepwise manner in accordance with the average picture level as said average picture level goes from a lower level into a higher level.